Contents

Adams MA, Attiwill PM, Polglase PJ: Availability of nitrogen and phosphorus in forest soils in northeastern Tasmania 212
Ahenkorah Y → Appiah MR
Alef K, Kleiner D: Rapid and sensitive determination of microbial activity in soils and in soil aggregates by dimethylsulfoxide reduction 349
Allen MF, Richards JH, Busso CA: Influence of clipping and soil water status on vesicular-arbuscular mycorrhizae of two semi-arid tussock grasses 285
Angle JS → El-Kherbawy M
Anjaiah V → Nambiar PTC
Appiah MR, Ahenkorah Y: Determination of available sulphate in some soils of Ghana using five extraction methods 80
Arines J, Vilariño: Use of nutrient: phosphate ratios to evaluate the effects of vesicular-arbuscular mycorrhiza on nutrient uptake in unsterilized soils 293
Attiwill PM → Adams MA
Attiwill PM → Maheswaran J
Avnimelech Y → Huysman F
Azam F, Mulvaney RL, Stevenson FJ: Transformation of ^{15}N-labelled leguminous plant material in three contrasting soils 54

Bangar KC, Shanker S, Kapoor KK, Kukreja Kamlesh, Mishra MM: Preparation of nitrogen and phosphorus-enriched paddy straw compost and its effect on yield and nutrient uptake by wheat (*Triticum aestivum* L.) 339
Berg P, Rosswall T: Abiotic factors regulating nitrification in a Swedish arable soil 247
Billès G → Coûteaux MM
Bottner P → Coûteaux MM
Breakwell DP, Turco RF: Nutrient and phytotoxic contributions of residue to soil in no-till continuous-corn ecosystems 328
Bremner JM, Chai HS: Effects of phosphoroamides on ammonia volatilization and nitrite accumulation in soils treated with urea 227
Bremner JM, Krogmeier MJ: Effects of nitrification inhibitors on germination of various seeds in soil 369
Bremner JM → Krogmeier MJ
Bremner JM → McCarty GW
Busso CA → Allen MF
Buyer JS, Sikora LJ, Chaney RL: A new growth medium for the study of siderophore-mediated interactions 97

Chai HS → Bremner JM
Chai HS → McCarty GW
Chaney RL → Buyer JS
Chaney RL → El-Kherbawy M
Chao CC → Young CC
Christensen BT → Jensen ES
Clarholm M: Effects of plant-bacterial-amoebal interactions on plant uptake of nitrogen under field conditions 373
Coleman DC → Ingham ER
Coûteaux MM, Henkinet R, Pitta P, Bottner P, Billès G, Palka L, Vannier G: Native carbon mineralization of an acid organic soil after use of the chloroform-fumigation method to estimate microbial biomass 172

Dandurand L-MC → Guttay AJR
Diestel H → Joschko M
Dindal DL → Hamilton WE
Doelman P, Haanstra L: Short- and long-term effects of heavy metals on phosphatase activity in soils: An ecological dose-response model approach 235
Dorel FG → Verhoef HA

Eiland F → Lind A-M
El-Kherbawy M, Angle JS, Heggo A, Chaney RL: Soil pH, rhizobia. and vesicular-arbuscular mycorrhizae inoculation effects on growth and heavy metal uptake of alfalfa (*Medicago sativa* L.) 61
El-Nasshar → Huber DM
Eskew DL → Watanabe I

Fox RL → Habte M
Fritze H, Niini S, Mikkola K, Mäkinen A: Soil microbial effects of a Cu-Ni smelter in southwestern Finland 87

Gajendiran N, Mahadevan A: Nitrogenase activity associated with leaf, root, and rhizosphere soils in an Indian tropical forest 71
Gomez A → Mench M
Gool A Van → Michiels K
Gunasekara WMIS → Huysman F
Guttay AJR, Dandurand L-MC: Interaction of the vesicular-arbuscular mycorrhizae of maize with extractable soil phosphorus levels and nitrogen-potassium fertilizers 307

Haanstra L → Doelman P
Habte M, Fox RL: *Leucaena leucocephala* seedling response to vesicular-arbuscular mycorrhizal inoculation in soils with varying levels of inherent mycorrhizal effectiveness 111
Häussling M, Marschner H: Organic and inorganic soil phosphates and acid phosphatase activity in the rhizosphere of 80-year-old Norway spruce [*Picea abies* (L.) Karst.] trees 128
Hallatt L → Reinecke AJ
Hamilton WE, Dindal DL: Impact of landspread sewage sludge and earthworm introduction on established earthworms and soil structure 160
Hamilton WE, Sillman DY: Influence of earthworm middens on the distribution of soil microarthropods 279
Hardy GE → Kaewruang W
Hardy GEStJ, Sivasithamparam K: Microbial, chemical and physical changes during composition of a eucalyptus (*Eucalyptus calophylla* and *Eucalyptus diversicolor*) bark mix 260
Heggo A → El-Kherbawy M
Henkinet R → Coûteaux MM
Henschke RB, Schmidt FRJ: Survival, distribution, and gene transfer of bacteria in a compact soil microcosm system 19
Hopkins DW, O'Donnell AG, Shiel RS: Detection of nitrification in a stagnohumic-gley soil 335
Huber DM, El-Nasshar H, Moore LW, Mathre DE, Wagner JE: Interaction between a peat carrier and bacterial seed treatments evaluated for biological control of the take-all diseases of wheat (*Triticum aestivum* L.) 166
Huysman F, Gunasekara WMIS, Avnimelech Y, Verstraete W: Hydrogen consumption rate in a soil as an indication of compaction and gas-diffusion status 231

Ingham ER, Coleman DC, Moore JC: An analysis of food-web structure and function in a shortgrass prairie, a mountain meadow, and a lodgepole pine forest 29
Isnor RA → Warman PR

Jensen ES, Christensen BT, Sørensen LH: Mineral-fixed ammonium in clay- and silt-size fractions of soils incubated with ^{15}N-ammonium sulphate for five years 298
Joschko M, Diestel H, Larink O: Assessment of earthworm burrowing efficiency in compacted soil with a combination of morphological and soil physical measurements 191
Juma NG → Rutherford PM
Juste C → Mench M

Kaewruang W, Sivasithamparam K, Hardy GE: Use of soil solarization to control root rots in gerberas (*Gerbera jamesonii*) 38
Kapoor KK → Bangar KC
Kleiner D → Alef K
Krogmeier MJ, Bremner JM: Effects of phenolic acids on seed germination and seedling growth in soil 116
Krogmeier MJ → Bremner JM
Kuikman PJ, Van Veen JA: The impact of protozoa on the availability of bacterial nitrogen to plants 13
Kukreja Kamlesh → Bangar KC

Larink O → Joschko M
Laxminarayana K → Sharma PK
Lind A-M, Eiland F: Microbiological characterization and nitrate reduction in subsurface soils 197

MacDonald R → Wheatley RE
Mäkinen A → Fritze H
Mahadevan A → Gajendiran N
Maheswaran J, Attiwill PM: Soil respiration in eucalypt forests of southeastern Australia 154
Marschner H → Häussling M
Mascariña G → Watanabe I
Mathre DE → Huber DM
McCarty GW, Bremner JM: Inhibition of nitrification in soil by heterocyclic nitrogen compounds 204
McCarty GW, Bremner JM: Formation of phosphoryl triamide by decomposition of thiophosphoryl triamide in soil 290
McCarty GW, Bremner JM, Chai HS: Effect of *N*-(*n*-butyl) thiophosphoric triamide on hydrolysis of urea by plant, microbial, and soil urease 123
Mench M, Tancogne J, Gomez A, Juste C: Cadmium bioavailability to *Nicotiana tabacum* L., *Nicotiana rustica* L., and *Zea mays* L. grown in soil amended or not amended with cadmium nitrate 48
Michiels K, Vanderleyden J, Gool A Van: *Azospirillum* — plant root associations: A review 356
Mikkola K → Fritze H
Mishra MM → Bangar KC
Mishra RR → Tiwari SC
Moore JC → Ingham ER
Moore LW → Huber DM
Mulvaney RL → Azam F

Nambiar PTC, Anjaiah V: Competition among strains of *Bradyrhizobium* and vesicular-arbuscular mycorrhizae for groundnut (*Arachis hypogaea* L.) root infection and their effect on plant growth and yield 311
Nieder R, Schollmayer G, Richter J: Denitrification in the rooting zone of cropped soils with regard to methodology and climate: A review 219
Niini S → Fritze H

O'Donnell AG → Hopkins DW

Palka L → Coûteaux MM
Patra DD, Sachdev MS, Subbiah BV: Residual value of ^{15}N-labelled fertilizer applied to a maize-cowpea intercropping system 183
Pitta P → Coûteaux MM
Polglase PJ → Adams MA
Prasad R → Venugopalan MV

Reddy MV, Venkataiah B: Influence of microarthropod abundance and climatic factors on weight loss and mineral nutrient contents of *Eucalyptus* leaf litter during decomposition 319
Reinecke AJ, Hallatt L: Growth and cocoon production of *Perionyx excavatus* (Oligochaeta) 303
Richards JH → Allen MF
Richter J → Nieder R
Ritz K, Wheatley RE: Effects of water amendment on basal and substrate-induced respiration rates of mineral soils 242
Rosswall T → Berg P
Rutherford PM, Juma NG: Shoot, root, soil and microbial nitrogen dynamics in two contrasting soils cropped to barley (*Hordeum vulgare* L.) 134
Rutherford PM, Juma NG: Dynamics of microbial biomass and soil fauna in two contrasting soils cropped to barley (*Hordeum vulgare* L.) 144

Sachdev MS → Patra DD
Schmidt FRJ → Henschke RB
Schollmayer G → Nieder R
Shanker S → Bangar KC
Sharma PK, Laxminarayana K: Effect of high temperature on plasmid curing of *Rhizobium* spp. in relation to nodulation of pigeonpea [*Cajanus cajan* (L.) Millsp.] 75
Shiel RS → Hopkins DW
Sikora LJ → Buyer JS
Sillman DY → Hamilton WE
Singh JS → Srivastava SC
Sivasithamparam K → Hardy GEStJ
Sivasithamparam K → Kaewruang W
Smith AM → Wheatley RE
Smith JL: Sensitivity analysis of critical parameters in microbial maintenance-energy models 7
Sørensen LH → Jensen ES
Srivastava SC, Singh JS: Effect of cultivation on microbial carbon and nitrogen in dry tropical forest soil 343
Stevenson FJ → Azam F
Subbiah BV → Patra DD

Tancogne J → Mench M
Tiwari BK → Tiwari SC
Tiwari SC, Tiwari BK, Mishra RR: Microbial populations, enzyme activities and nitrogen-phosphorus-potassium enrichment in earthworm casts and in the surrounding soil of a pineapple plantation 178
Turco RF → Breakwell DP

Vanderleyden J → Michiels K
Vannier G → Coûteaux MM
Veen JA Van → Kuikman PJ
Venkataiah B → Reddy MV
Ventura W → Watanabe I
Venugopalan MV, Prasad R: Hydrolysis of ammonium polyphosphate in soils under aerobic and anaerobic conditions 325
Verhoef HA, Dorel FG, Zoomer HR: Effects of nitrogen deposition on animal-mediated nitrogen mobilization in coniferous litter 255
Verstraete W → Huysman F
Vilariño A → Arines J

Wagner JE → Huber DM
Warman PR, Isnor RA: Evidence of peptides in low-molecular-weight fractions of soil organic matter 25
Watanabe I, Ventura W, Mascariña G, Eskew DL: Fate of *Azolla* spp. and urea nitrogen applied to wetland rice (*Oryza sativa* L.) 102
Wheatley RE, MacDonald R, Smith AM: Extraction of nitrogen from soils 189
Wheatley RE → Ritz K
Whitford WG: Abiotic controls on the functional structure of soil food webs 1
Woods LE: Active organic matter distribution in the surface 15 cm of undisturbed and cultivated soil 271

Young CC, Chao CC: Intrinsic antibiotic resistance and competition in fast- and slow-growing soybean rhizobia on a hybrid of Asian and US cultivars 66

Zoomer HR → Verhoef HA

Short communication

Ritz K, Wheatley RE: Freezing as a means or preserving samples in soil respiration studies 95